



WHAT IS CLAIMED IS:

1. A video encoding method with support for editing when scene changed, the distance between two reference pictures being defined as M in a GOP, the method comprising the steps of:
 - capturing pictures in a display order;
 - detecting the scene change for a picture PIC_n ; and
 - coding the pictures in a coding order when there is not a scene change occurred, and
 - coding the pictures by a special processing when there is a scene change occurred;

the special processing comprising:

 - executing a first and a third coding stages when the picture PIC_{n-1} is not a reference picture; and
 - executing a second and the third coding stages when the picture PIC_{n-1} is a reference picture;

wherein the first coding stage is to re-code the picture PIC_{n-1} as a P-picture, the second coding stage is to code the B-pictures preceding the picture PIC_{n-1} , and the third coding stage is to start a new GOP, to code a picture PIC_{n+M-1} as a I-picture, and to code the pictures PIC_n to PIC_{n+M-2} as B-pictures with only referencing to the picture PIC_{n+M-1} .
2. The video encoding method of claim 1, wherein the first coding stage finishes coding the B-pictures if there are B-pictures preceding a previous reference picture.
3. The video encoding method of claim 1, wherein the first coding stage codes the B-pictures if there are B-pictures preceding the picture PIC_{n-1} .